

Ted Wynne Engineering/Contractor, Inc.

417 WELSHWOOD DRIVE • SUITE 114 • NASHVILLE, TN 37211 PHONE: 615-331-7660 • FAX: 615-333-0764

June 21, 1999

Tennessee Valley Authority Mr. Bill Stalker Telco Research Building 616 Marriott Drive, TRN3L Nashville, Tennessee 37214

Re:

RIVERBEND PRISON HOLE TESTS 1&2

NASHVILLE, TENNESSEE

TWEC # 99026

Dear Bill:

This office performed a thermal conductivity test on two (2) 200 feet deep, 6-inch diameter vertical boreholes, backfilled with drilled tails and crushed stone on April 19, and 20, 1999. The following data was derived from test data:

HOLE #1

Thermal Conductivity	1.9 Btu/hr-f
Ground Temperature	60.6 F

HOLE #2

Thermal Conductivity	1.1 Btu/hr-f
Ground Temperature	60.6 F

We believe the difference in the results from the two- (2) tests is due to improper backfill of hole #2. It appears that the backfill bridged during completion leaving a portion of the loop our of contact with the backfill.

This conclusion is based on the driller's log showing close similarity of the test bores, with the expectation of similar thermal conductivity.

WEB SITE: www.twecinc.net

If we can be of any further assistance please contact us.

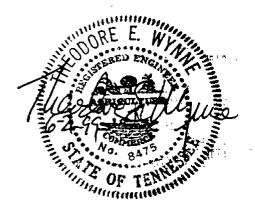
Sincerely,

TED WYNNE ENGINEERING/CONTRACTORS, INC.

Theodore E. Wynne, P.E.

ma

File name: 99026



Wells

17' Dist 32'
26-29' CAVE 36-39'
32 WATER 60'

124-130 WATER 120-125

200' TD 200'

Reverbent

Pure Asing 40'

PRINT PRINT